

## ATTACHMENT 7. Approved Biocontrol Agents for California.

Common Name	Scientific Name	Biocontrol Agent(s)
Russian knapweed	<i>Acroptilon repens</i>	<i>Jaapiella ivannikovi</i> (Russian knapweed galling midge)
alligatorweed	<i>Alternanthera philoxeroides</i>	<i>Agasicles hygrophila</i> (alligator weed flea beetle) <i>Amynothrips andersoni</i> (alligator weed thrips) <i>Vogtia malloi</i> (alligator weed stem borer)
giant reed	<i>Arundo donax</i>	<i>Rhizaspidiotus donacis</i> (Arundo armored scale) <i>Tetramesa romana</i> (Arundo shoot gall wasp)
musk thistle	<i>Carduus nutans</i>	<i>Rhinocyllus conicus</i> (thistle seed head weevil)
Italian thistle	<i>Carduus pycnocephalus</i>	<i>Rhinocyllus conicus</i> (thistle seed head weevil)
diffuse knapweed	<i>Centaurea diffusa</i>	<i>Bangasternus fausti</i> (broad-nosed seed head weevil) <i>Larinus minutus</i> (lesser knapweed flower weevil) <i>Sphenoptera jugoslavica</i> (knapweed root-boring beetle) <i>Urophora affinis</i> (banded knapweed seed head gall fly) <i>Urophora quadrifasciata</i> (four-banded knapweed seed head gall fly)
meadow knapweed	<i>Centaurea jacea</i> ssp. <i>pratensis</i>	<i>Bangasternus fausti</i> (broad-nosed seed head weevil) <i>Cyphocleonus achates</i> (knapweed root weevil) <i>Larinus minutus</i> (lesser knapweed flower weevil) <i>Larinus obtusus</i> (blunt knapweed flower weevil) <i>Urophora affinis</i> (banded knapweed seed head gall fly)
spotted knapweed	<i>Centaurea stoebe</i>	<i>Agapeta zoegana</i> (yellow-winged knapweed root moth) <i>Cyphocleonus achates</i> (knapweed root weevil) <i>Larinus minutus</i> (lesser knapweed flower weevil) <i>Terellia virens</i> (green clearwing fly) <i>Urophora affinis</i> (banded knapweed seed head gall fly) <i>Urophora quadrifasciata</i> (four-banded knapweed seed head gall fly)
squarrose knapweed	<i>Centaurea squarrosa</i>	<i>Bangasternus fausti</i> (broad-nosed seed head weevil) <i>Cyphocleonus achates</i> (knapweed root weevil) <i>Larinus minutus</i> (lesser knapweed flower weevil) <i>Sphenoptera jugoslavica</i> (knapweed root-boring beetle) <i>Terellia virens</i> (green clearwing fly) <i>Urophora affinis</i> (banded knapweed seed head gall fly) <i>Urophora quadrifasciata</i> (four-banded knapweed seed head gall fly)
yellow starthistle	<i>Centaurea solstitialis</i>	<i>Bangasternus orientalis</i> (yellow starthistle bud weevil) <i>Chaetorellia australis</i> (yellow starthistle peacock fly) <i>Eustenopus villosus</i> (yellow starthistle hairy weevil) <i>Larinus curtus</i> (yellow starthistle flower weevil) <i>Puccinia jacea</i> var. <i>solstitialis</i> (yellow starthistle rust fungus) <i>Urophora jacea</i> (yellow starthistle gall fly) <i>Urophora sirunaseva</i> (yellow starthistle gall fly)
purple starthistle	<i>Centaurea calcitrapa</i>	<i>Bangasternus fausti</i> (broad-nosed seed head weevil) <i>Larinus minutus</i> (lesser knapweed flower weevil) <i>Terellia virens</i> (green clearwing fly)
Iberian starthistle	<i>Centaurea iberica</i>	<i>Bangasternus fausti</i> (broad-nosed seed head weevil)

## ATTACHMENT 7. Approved Biocontrol Agents for California.

rush skeletonweed	<i>Chondrilla juncea</i>	<i>Aceria chondrillae</i> (rush skeletonweed gall mite) <i>Cystiphora schmidtii</i> (rush skeletonweed gall midge) <i>Puccinia chondrillina</i> (rush skeletonweed rust fungus)
Canada thistle	<i>Cirsium arvense</i>	<i>Altica carduorum</i> (Canada thistle flea beetle) <i>Ceutorhynchus litura</i> (Canada thistle stem weevil) <i>Urophora cardui</i> (Canada thistle gall fly)
bull thistle	<i>Cirsium vulgare</i>	<i>Urophora stylata</i> (bull thistle seed head gall fly)
Scotch broom	<i>Cytisus scoparius</i>	<i>Exapion fuscirostre</i> (Scotch broom seed weevil) <i>Leucoptera spartifoliella</i> (Scotch broom twigminer)
water hyacinth	<i>Eichhornia crassipes</i>	<i>Megamelus scutellaris</i> (water hyacinth plant hopper) <i>Neochetina bruchi</i> (water hyacinth weevil) <i>Neochetina eichhorniae</i> (water hyacinth weevil) <i>Niphograpta albipennis</i> (water hyacinth moth)
leafy spurge	<i>Euphorbia esula</i>	<i>Aphthona lacertosa</i> (brown-legged leafy spurge flea beetle) <i>Aphthona nigriscutis</i> (black dot leafy spurge flea beetle) <i>Oberea erythrocephala</i> (red-headed leafy spurge stem borer)
oblong spurge	<i>Euphorbia oblongata</i>	<i>Hyles euphorbiae</i> (leafy spurge hawk moth) <i>Aphthona lacertosa</i> (brown-legged leafy spurge flea beetle)
carnation spurge	<i>Euphorbia terracina</i>	<i>Aphthona lacertosa</i> (brown-legged leafy spurge flea beetle)
halogeton	<i>Halopeplis glomeratus</i>	<i>Coleophora parthenica</i> (Russian thistle stem-mining moth)
hydrilla	<i>Hydrilla verticillata</i>	<i>Bagous affinis</i> (Indian hydrilla tuber weevil) <i>Hydrellia pakistanae</i> (Indian hydrilla leaf-mining fly)
Canary Island hypericum	<i>Hypericum canariensis</i>	<i>Aplocera plagiata</i> (St. Johnswort inchworm)
St. Johnswort (klamathweed)	<i>Hypericum perforatum</i>	<i>Agrilus hyperici</i> (St. Johnswort root borer) <i>Aplocera plagiata</i> (St. Johnswort inchworm) <i>Chrysolinus hyperici</i> (klamathweed beetle) <i>Chrysolinus quadrigemina</i> (klamathweed beetle) <i>Zeuxidiplosis giardi</i>
Dalmatian toadflax	<i>Linaria dalmatica</i>	<i>Mecinus janthiniformis</i> (Dalmatian toadflax stem weevil)
purple loosestrife	<i>Lythrum salicaria</i>	<i>Galerucella calmariensis</i> (black-margined loosestrife beetle) <i>Galerucella pusilla</i> (golden loosestrife beetle) <i>Hylobius transversovittatus</i> (loosestrife root weevil) <i>Nanophyes marmoratus</i> (loosestrife weed weevil)
Scotch thistle	<i>Onopordum acanthium</i>	<i>Rhinocyllus conicus</i> (thistle seed head weevil)
Russian thistle	<i>Salsola tragus</i>	<i>Coleophora klimeschiella</i> (Russian thistle casebearer) <i>Coleophora parthenica</i> (Russian thistle stem-mining moth)
Mediterranean sage	<i>Salvia aethiopis</i>	<i>Phrydiuchus tau</i> (Mediterranean sage root weevil)

## **ATTACHMENT 7. Approved Biocontrol Agents for California.**

giant salvinia	<i>Salvinia molesta</i>	<i>Cyrtobagous salviniae</i> (salvinia weevil)
tansy ragwort	<i>Senecio jacobaea</i>	<i>Longitarsus jacobaeae</i> (tansy ragwort flea beetle) <i>Botanophila seneciella</i> (ragwort seed head fly) <i>Tyria jacobaeae</i> (cinnabar moth)
milk thistle	<i>Silybum marianum</i>	<i>Rhinocyllus conicus</i> (thistle seed head weevil)
saltcedar	<i>Tamarix parviflora</i> <i>Tamarix ramosissima</i>	<i>Diorhabda carinulata</i> (northern tamarisk beetle) <i>Diorhabda elongata</i> (Mediterranean tamarisk beetle)
puncturevine	<i>Tribulus terrestris</i>	<i>Microlarinus lareynii</i> (puncturevine seed weevil) <i>Microlarinus lypriformis</i> (puncturevine stem weevil)
gorse	<i>Ulex europaeus</i>	<i>Exapion ulicis</i> (gorse seed weevil) <i>Tetranychus lintearius</i> (gorse spider mite)